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Notes:

1. Untranslatable words are replaced with asterisks (***).
2. Texts in the figures are not translated and shown as it is.

Translated: 01:20:47 JST 04/18/2009

Dictionary: Last updated 04/14/2009 / Priority: 1. Electronic engineering / 2. Mechanical engineering / 3. Technical term

FULL CONTENTS

[Claim(s)]

[Claim 1]A handle of a slide fastener with which reception and dispatch buried an IC chip and an antenna containing discernment information by non-contact on a main part of a handle of a slide fastener as a possible state, and formed them in it.

[Claim 2]A handle of a slide fastener which is a handle of a slide fastener concerning Claim 1, made a main part of a handle metal, and provided a slit for reception / dispatch or a hole of an IC chip and an antenna which is buried, is provided and is penetrated in and abroad in a wall of a part.

[Claim 3]A handle of a slide fastener which is a handle of a slide fastener concerning Claim 1 or 2, and enclosed an IC chip containing discernment information, and its antenna with covering pipes, such as a thin glass tube or plastic tubing.

[Claim 4]A handle of a slide fastener which made a main part of a handle products made from a soft material, such as leather, thick cloth, and a synthetic resin, and covered an outer circumference of covering pipes, such as a glass tube or plastic tubing, with reinforcement pipes made from hard material, such as a slit for reception / dispatch, or metal with a hole, about a handle of a slide fastener concerning Claim 1 or 3.

[Detailed Description of the Invention]

[0001]

[The technical field to which an invention belongs] This invention relates to the handle of a slide fastener with the antenna etc. of IC containing discernment information mainly used for clothes, a bag, a golf bag, etc., and the IC concerned.

[0002]

[Description of the Prior Art]Conventionally, the handle of the slide fastener provided with the IC chip into which discernment information was put, and its antenna is not found.

[0003]

[Problem to be solved by the invention]This invention is adopted as distribution management, such as merchandise management in the clothes cleaning industry, the apparel business, and a bag and the pouches industry, and customer relations management, the prevention from loss, theft prevention, forgery prevention, etc., and an object of this invention is to provide newly the handle of the very suitable and useful slide fastener which has the feature in composition.

[0004]

[Means for solving problem]To achieve the above objects, the handle of the new slide fastener concerning this invention is buried on the main part of a handle of a slide fastener as a state which can send [reception and] the IC chip and antenna containing discernment information, and is provided in it, [0005]And the main part of a handle is made into metal, and the slit for reception / dispatch or hole of an IC chip and an antenna which is buried, is provided and is penetrated in and abroad in the wall of a part is provided, [0006]And the IC chip containing discernment information and its antenna are enclosed with covering pipes, such as a thin glass tube or plastic tubing, [0007]The main part of a handle is made into products made from a soft material, such as leather, thick cloth, and a synthetic resin, and the outer circumference of covering pipes, such as a glass tube or plastic tubing, is covered with the pipe made from hard material, such as a slit for reception / dispatch, or metal with a hole.

[0008]

[Working example]The 1st work example shown in drawing 1 constitutes the main part 4 of the charge handle of a metallic material which has the connected ring 3 to the slide block of a slide fastener, the embedded hole 6 of the discernment object 11 stated to this main part 4 of a handle below is drilled, and the slit 7 which is in and abroad open for free passage on the side of this embedded hole 6 is established, [0009]The discernment object 11 which enclosed noncontact IC chip 9 containing discernment information of the electromagnetic induction type which starts a part of energy which a reader writer (not shown) releases separately from this as a power supply, and functions via the coil antenna 8 in the thin glass tube 10 and as for which the element (device) turned is constituted.

[0010]And it falls out in the above-mentioned embedded hole 6, and this discernment object 11 is embedded impossible and established.

[0011]The 2nd work example shown in drawing 2 constitutes the main part 13 of a handle provided with the electromagnetism permeability which has the connected ring 3 to the slide block of a slide fastener made from plastic material, The embedded hole 14 is drilled in this main part 13 of a handle, and the waterproof resin 15 provided with electromagnetism permeability encloses the entering discernment object 11 in the above-mentioned glass tube 10 with this embedded hole 14.

[0012]the 3rd work example shown in drawing 3 -- by leather material -- embedded [of the discernment object 11] -- business -- the main part 17 for slide blocks of a slide fastener with the

space 16 of a handle being constituted, and separately from this, constituting the element 20 which put and reinforced the discernment object 11 containing [above-mentioned] a glass tube with the metallic conduit 18 with the long hole 19 for reception / dispatch -- this element 20 -- the above-mentioned embedded one -- business -- it **** in the space 16.

[0013]This invention can use an IC chip by EEPROM which can perform rewriting of information by a user, a mask ROM which cannot perform rewriting of information by a user, PROM to which programs, such as writing of information, are made as for a user, or nonvolatile FROM using a ferroelectric. An element which put and reinforced the above-mentioned discernment object with reinforcement pipes, such as a metallic conduit, can also be provided alone. a main part of a handle - - embedded -- business -- a hole is drilled and an IC chip and a coil antenna can be carried out to this by composition enclosed in the state of putting in whether it being direct without a glass tube etc.

[0014]

[Function]The handle of the slide fastener concerning this invention attaches this to slide fasteners, such as clothes and a bag, and performs transmitting and receiving processing by non-contact between an IC chip and a reader writer (not shown), and presents usages, such as carrying out computer management of this with a personal computer etc., with it.

[0015]

[Effect of the Invention][the handle of the slide fastener concerning this invention] Can use this for the above usages, and according to this. Distribution management, such as merchandise management in the clothes cleaning industry, the apparel business, and a bag and the pouches industry and customer relations management, the prevention from loss of clothes, a bag, etc., theft prevention, forgery prevention, other ON leaving managements (restriction), etc. can be made easily and certainly in the state where there is no mistake in discernment.

since this invention can obtain a finished product by providing a hole and space in the main part of a handle like the above-mentioned work example, and embedding an IC chip element assembly at this, it does not carry out design manufacture of the main part of a handle anew, but is conventionally simple also for ** at diversion of elegance -- there is an advantage which can be easily provided by low cost.

[0016]The handle of the slide fastener concerning Claim 2 has reception and an advantage which can certainly provide the powerful metal main part of a handle since it has been made to send via the slit for reception / dispatch, or a hole.

[0017][the IC chip in the handle of the slide fastener concerning Claim 3, and its antenna] Since device formation is enclosed and carried out to a thin glass tube or plastic tubing, part management, production control, etc. can be independently performed with the main part of a handle, and a merit is large in a maker.

[0018]The glass tube or the IC chip containing plastic tubing in a handle of the slide fastener

concerning Claim 4 is reinforced with reinforcement pipes, such as a metallic conduit, and it does not damage, and has the higher efficacy which enables offer of handle products, such as the skin and cloth.

[Brief Description of the Drawings]

[Drawing 1] It is a partially cut-away perspective view showing the 1st work example of this invention.

[Drawing 2] It is a partially cut-away perspective view showing the 2nd work example of this invention.

[Drawing 3] It is a partially cut-away perspective view showing the 3rd work example of this invention.

[Explanations of letters or numerals]

3 Connected ring

4, 13, the main part of 17 handles

6 and 14 Embedded hole

7 Slit

8 Coil antenna

9 IC chip

10 Glass tube

11 Discernment object

15 Waterproof resin

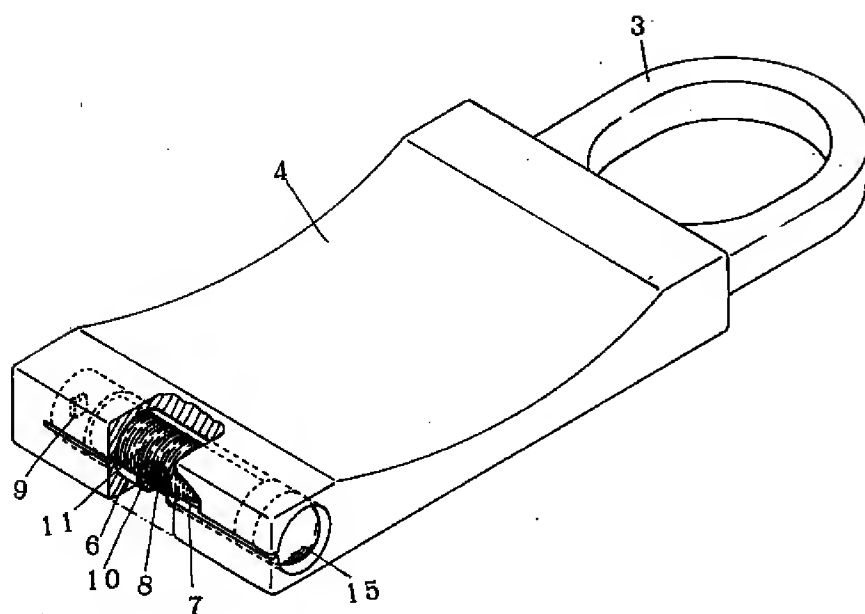
16 embedded -- business -- space

18 Metallic conduit

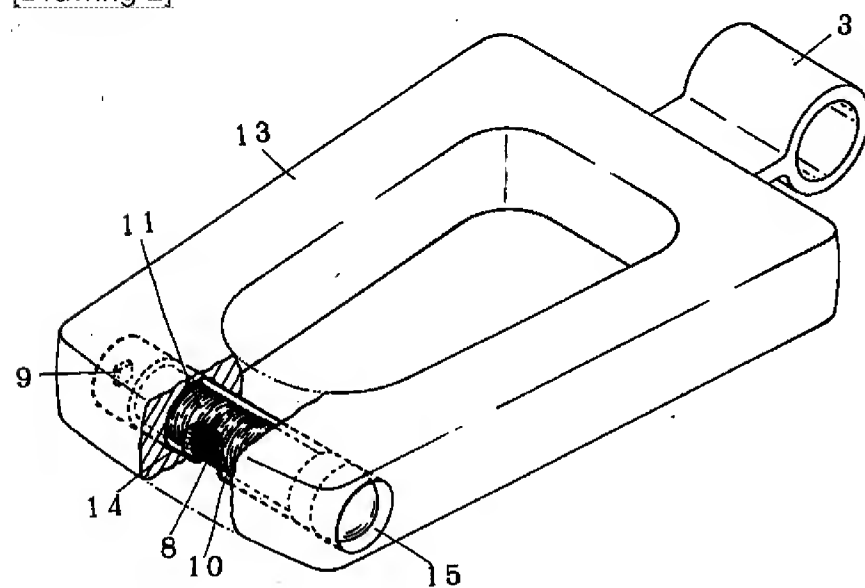
19 Long hole

20 Element

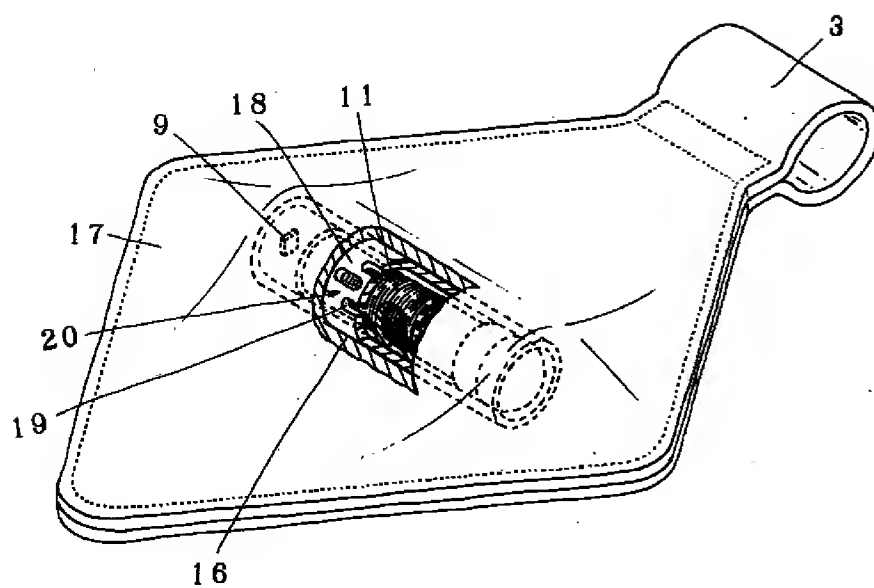
[Drawing 1]



[Drawing 2]



[Drawing 3]



[Translation done.]